

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

NOV - 8 2012

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS


NAME: US Department of Interior Bureau of Reclamation
ADDRESS: 826 E FRONT STREET, SUITE A
PORT ANGELES, WA. 98362-3613
FACILITY: ELWHA WATER TREATMENT PLANT
LOCATION: Elwha River/ Lat: 48°10'10"N./Long:123°33'7"W
ATTN: DAVID F ADKINS, USBR CIVIL ENG

WA-002666-2
PERMIT NUMBER

*001
DISCHARGE NUMBER

Sedimentation Plant
(non-wastewater)

MONITORING PERIOD							
From	Year	Mo	Day	To	Year	Mo	Day
	2012	10	1		2012	10	31

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS					
Water Temperature Effluent 00010 1 0 0	Sample Measurement	*****	*****		*****	8.7	11.8		0	Daily	Grab		
	Permit Requirement	*****	*****		*****	Report	Report	Deg. C	*****	5/Week	Grab		
Water Temperature Influent 00010 7 0 0	Sample Measurement	*****	*****		*****	8.4	10.4		0	Daily	Grab		
	Permit Requirement	*****	*****		*****	Report	Report	Deg. C	*****	5/Week	Grab		
Flow Rate Effluent 00056 1 0 0	Sample Measurement	5	15.5		*****	*****	*****		0	Continuous	Recording		
	Permit Requirement	Report	Report	CFS	*****	*****	*****		*****	Continuous	Recording		
Flow Rate Influent 00056 7 0 0	Sample Measurement	57.3	69.8		*****	*****	*****		0	Continuous	Recording		
	Permit Requirement	Report	Report	CFS	*****	*****	*****		*****	Continuous	Recording		
Turbidity Influent 00070 7 0 0	Sample Measurement	*****	*****		*****	569.1	3,808		0	Continuous	Recording		
	Permit Requirement	*****	*****		*****	Report	Report	NTU	*****	Continuous	Recording		
Total Suspended Solids Daily Average Influent Turbidity > 50 NTU Influent 00150 P 0 0 See Comments Below	Sample Measurement	347,619	1,494,771		*****	1,089	4,643		0	Daily	24-Hr Composite		
	Permit Requirement	Report	See I.B.3 & I.B.4	Lb/Day	*****	Report	Report	mg/L	*****	Daily	24-Hr Composite		
Dissolved Oxygen Influent 00300 7 0 0	Sample Measurement	*****	*****		*****	8.7	9.5		0	Daily	Grab		
	Permit Requirement	*****	*****		*****	Report	Report	mg/L	*****	1/Month	Grab		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Tom Hubbard	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE				
TYPED OR PRINTED							503	582-9655	2012	11	4		
				Area Code		Number		Year		Mo		Day	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 0 = Daily Avg. Influent From River Turbidity >50 NTU: P = Daily Avg. From River Turbidity <50

Handwritten: PDS 11/16/12 A

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(non-wastewater)

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		Average Monthly	Maximum Daily	UNITS		Minimum	Average Monthly	Maximum Daily				UNITS
BOD, 5-Day Effluent 00310 1 0 0	Sample Measurement	*****	*****		*****	<2.4	<2.4	mg/L	0	1/ Month	Comp	
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/ Month	24- Hr Composite	
PH Effluent 00400 1 0 0	Sample Measurement	*****	*****		*****	7.7	8	SU	0	Daily	Grab	
	Permit Requirement	*****	*****		*****	6.5 - 8.5	8.5		*****	5/Week	Grab	
PH Influent 00400 7 0 0	Sample Measurement	*****	*****		*****	7.8	8.2	SU	0	Daily	Grab	
	Permit Requirement	*****	*****		*****	6.5 - 8.5	8.5		*****	5/Week	Grab	
Total Alkalinity (As CaCO3) Effluent 00410 1 0 0	Sample Measurement	*****	*****		*****	46.3	60	mg/L as CaCO ₃	0	Daily	Comp	
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Comp	
Total Solids Suspended Effluent 00530 0 0 0 Daily Average Influent Turbidity > 50 NTU See Comments Below	Sample Measurement	281,581	1,524,174	Lb/Day	*****	7,596	30,000	mg/L	0	Daily	24-Hr Comp	
	Permit Requirement	975,009	9,514,739		*****	Report	Report		*****	Daily	24- Hr Composite	
Total Suspended Solids Effluent 00530 P 0 0 Daily Average Influent Turbidity < 50 NTU See Comments Below	Sample Measurement	21.8	29.33	#/CFS River	*****	592.71	725	mg/L	0	Day of Discharge	Comp	
	Permit Requirement	Report	22		*****	Report	Report		*****	Daily	24- Hr Composite	
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ATTN: DAVID F ADKINS, USBR CIVIL ENG

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From	Year	Mo	Day	To	Year	Mo	Day		
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Sedimentation Plant
(non-wastewater)

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS				
Total Suspended Solids Influent 00530 7 0 0 Daily Average Influent Turbidity < 50 NTU See Comments Below	Sample Measurement	57.94	84.16	Lb/CFS River	*****	58	73	mg/L	0	Day of Discharge	Comp	
	Permit Requirement	Report	Report		*****	Report	Report		*****	Daily	24-Hr Composite	
Settleable Solids Effluent 00545 1 0 0	Sample Measurement	*****	*****		*****	23	23	ml/L	0	1/Month	Comp	
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite	
Settleable Solids Influent 00545 7 0 0	Sample Measurement	*****	*****		*****	<1	<1	ml/L	0	1/Month	Comp	
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite	
Aluminum, Total (As AL) Effluent 01105 1 0 0	Sample Measurement	<11.2	<11.2	lb/Day	*****	<1	<1	mg/L	0	1/Month	Comp	
	Permit Requirement	Report	Report		*****	Report	Report		*****	1/Month	24-Hr Composite	
Aluminum, Total (As AL) Influent 01105 7 0 0	Sample Measurement	<302	<302	lb/Day	*****	<1	<1	mg/L	0	1/Month	Comp	
	Permit Requirement	Report	Report		*****	Report	Report		*****	1/Month	24-Hr Composite	
Fecal Coliform Effluent 31625 1 0 0	Sample Measurement	*****	*****		*****	57.5	70	#/100 ML	0	10/ Month	Grab	
	Permit Requirement	*****	*****		*****	Report	Report		*****	10/ Month	Grab	
Fecal Coliform Influent 31625 7 0 0	Sample Measurement	*****	*****		*****	28.5	50	#/100 ML	0	10/ Month	Grab	
	Permit Requirement	*****	*****		*****	Report	Report		*****	10/ Month	Grab	
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Tom Hubbard								503	582-9655	2012	11	4
TYPED OR PRINTED					SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA Code	NUMBER	Year	Mo	Day

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MONITORING PERIOD

From Year Mo Day To Year Mo Day
 2012 10 1 2012 10 31

Sedimentation Plant
 (non-wastewater)

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS			
Total Dissolved Solids Effluent 70295 1 0 0	Sample Measurement	*****	*****		*****	67.3	96	mg/L	0	4/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
Total Dissolved Solids Influent 70295 7 0 0	Sample Measurement	*****	*****		*****	70	78	mg/L	0	4/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				TELEPHONE		DATE				
TYPED OR PRINTED					503 582-9655		2012	11	4		
				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	Year	Mo	Day	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



November 5, 2012

US EPA Region 10
Director, Office of Compliance & Enforcement
1200 Sixth Avenue, OCE-133
Seattle, Washington 98101

**RE: NPDES # WA-002666-2, MONTHLY REPORT – OCTOBER, 2012 -
ELWHA WATER TREATMENT PLANT**

Attn: PCS Data Entry Team

Enclosed is the monthly Discharge Monitoring Report (DMR) for the Elwha Water Treatment Plant (Port Angeles, WA), for the month of October, 2012. The report is being submitted by Veolia Water North America (VWNA) Operating Services on behalf of the US Department of Interior, Bureau of Reclamation. A copy has been submitted to the Washington DOE.

As required in the NPDES permit a phone call to the NPDES Compliance Hotline was made on October 6th 2012. The call was made when we became aware of our sediment discharge exceedance for the first five days of October 2012, phone calls and email notification was also made to Mr. Brian Nickel about the situation.

The exceedance is for < 50 NTU effluent TSS reporting and as indicated in the attached tabulated data you will find the monthly average flow to be 21.8 and daily max of 29.33 Lbs/ CFS river flow respectively, the limit for the max daily is 22 Lbs/ CFS river flow. In review of the exceedance, environmental factors such as decreasing river flow, spikes in sediment due to dam deconstruction work, and settlement of sediment were the root cause of the issue.

Operators are finding that when the turbidity changes from >50 to <50 NTU and the river CFS decreases for an extended time, the sediment discharge will lag. This lag of sediment entered into the plant days prior to being discharged and then calculated using the lower river CFS which causes the effluent limit to be exceeded. At this time the operators are continuously running discharge pumps to make sure no accumulation of sediment occurs in the clarifiers, although this is not a 100% guarantee we have taken appropriate action to minimize the reoccurrence.



Please contact me if you have any questions or comments regarding the enclosed report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Hubbard'.

Tom Hubbard
Project Manager

CC: Tracy Gilchrist, NPS

Enclosures:

- DMR, October, 2012; EPA Form 3320-1 (4 pages)
- Table of values & mass limits for turbidity over and under 50 NTU

ELWHA NPDES REPORTING - SLURRY DISCHARGE - WA-002666-2

Oct-12

INFLUENT TURBIDITY LESS THAN 50 NTU

Day	Influent Turbidity - 13	Flow, Daily, Influent 3000		flow/daily, at outfall 3078	flow/daily at outfall cal	River Flow, 1	TSS Influent, 8	TSS Influent Mass_Calc	TSS Effluent 5002	TSS Effluent Mass_Calc	TSS Influent CFS River calc	TSS Effluent CFS River calc
	NTU	MGD	CFS	MGD	CFS	CFS	mg/L	Lbs/Day	mg/L	Lbs/Day	Lbs/CFS	Lbs/CFS
10/1/2012	45.10	38.6	59.7	1.33	2.06	321	67	21,413	703	7,798	66.7	24.3
10/2/2012	48.10	37.2	57.6	1.33	2.06	327	56	17,234	691	7,665	52.7	23.4
10/3/2012	47.20	37.5	58.0	1.35	2.09	316	55	17,191	683	7,690	54.4	24.3
10/4/2012	46.90	41.6	64.4	1.46	2.26	301	73	25,334	725	8,828	84.2	29.3
10/5/2012	48.80	31.5	48.7	1.27	1.97	291	69	18,110	687	7,277	62.2	25.0
10/6/2012	39.80	33.6	52.0	1.34	2.07	283	53	14,708	456	5,096	52.0	18.0
10/7/2012	29.80	32.1	49.7	1.33	2.06	277	35	9,243	204	2,263	33.4	8.2
DAILY MAX	48.80	41.61	64.39	1.46	2.26	327.00	73.00	25333.61	725.00	8827.89	84.16	29.33
AVERAGE	43.67	36.02	55.73	1.34	2.08	302.29	58.00	17604.69	592.71	6659.39	57.94	21.80

Note:

ELWHA_October 2012 - WA-002666-2

INFLUENT TURBIDITY ABOVE 50 NTU

Day	Influent Turbidity - 13	Flow, Daily, Influent 3000		flow/daily, at outfall 3078	flow/daily at outfall cal	River Flow, 1	TSS Influent, 8	TSS Influent Mass_Calc	TSS Effluent 5002	TSS Effluent Mass_Calc	Mass NTE Limit_calc
	NTU	MGD	CFS	MGD	CFS	CFS	mg/L	Lbs/Day	mg/L	Lbs/Day	lbs/day
10/8/2012	50.10	33.8	52.3	1.33	2.06	308	90	25,245	654	7,254	15,972
10/9/2012	48.00	36.2	56.1	1.34	2.07	289	50	15,106	444	4,962	8,415
10/10/2012	54.60	35.8	55.3	1.32	2.04	275	70	20,882	749	8,246	11,239
10/11/2012	67.60	36.9	57.0	1.37	2.12	270	74	22,592	870	9,940	11,636
10/12/2012	54.40	37.8	58.4	1.99	3.08	263	57	17,952	694	11,518	9,131
10/13/2012	63.90	37.2	57.5	1.36	2.10	331	186	57,674	1,756	19,917	35,555
10/14/2012	368.40	35.8	55.3	1.32	2.04	1,330	1011	301,452	10,918	120,194	738,283
10/15/2012	662.60	33.9	52.4	1.29	2.00	1,380	1007	284,394	12,210	131,363	762,276
10/16/2012	772.60	35.4	54.8	1.40	2.17	1,770	1142	337,255	5,894	68,818	1,106,119
10/17/2012	518.40	32.8	50.8	1.27	1.97	836	676	185,197	7,260	76,896	313,011
10/18/2012	366.60	33.8	52.3	1.31	2.03	715	1202	338,814	6,210	67,847	478,467
10/19/2012	809.30	45.0	69.6	9.58	14.82	2,190	1468	550,891	7,143	570,706	1,864,446
10/20/2012	563.10	45.1	69.8	9.99	15.46	1,180	865	325,594	2,459	204,876	630,067
10/21/2012	498.40	36.4	56.3	3.26	5.04	875	653	198,143	2,471	67,183	327,977
10/22/2012	381.50	35.1	54.3	1.40	2.17	727	528	154,418	5,961	69,601	214,031
10/23/2012	339.80	33.8	52.3	1.37	2.12	640	504	142,208	5,308	60,648	180,486
10/24/2012	379.20	32.2	49.9	1.38	2.14	596	976	262,323	11,712	134,796	326,412
10/25/2012	700.00	40.9	63.4	7.82	12.10	549	997	340,490	6,872	448,184	366,747
10/26/2012	511.30	42.7	66.0	8.67	13.42	522	866	308,124	4,564	330,013	312,653
10/27/2012	632.00	36.0	55.7	3.18	4.92	597	2031	609,533	15,046	399,038	713,716
10/28/2012	1604.50	40.4	62.5	6.08	9.41	1,160	1530	515,155	10,810	548,145	1,043,316
10/29/2012	2847.00	44.3	68.5	9.71	15.02	1,230	2349	867,083	7,565	612,624	1,768,434
10/30/2012	1235.00	36.8	57.0	5.04	7.80	1,470	3152	967,571	30,000	1,261,008	2,647,086
10/31/2012	3808.00	38.6	59.7	7.39	11.43	3,670	4643	1,494,771	24,730	1,524,174	9,514,739
DAILY MAX	3,808.00	45.13	69.84	9.99	15.46	3,670.00	4,643.00	1,494,770.58	30,000.00	1,524,174.20	9,514,739.26
AVERAGE	722.35	37.36	57.80	3.76	5.81	965.54	1,088.58	347,619.40	7,595.83	281,581.24	975,008.91